



INSTITUTE FOR INNOVATION BIOECONOMICS «BIOREGION – WEALTHYLAND»



CLUSTERS for agribusiness development

Clustering for growing and processing of socially important and commercially-attractive agricultural products with a glance to climatological, industrial and infrastructure features of the regions.

STARTUPS

Potential analysis, innovative models development and development programs realization of agro industrial complex of region



Fundamental business-providers' determination and engineering and manufacturing clusters forming for learning, growing and processing of science-intensive products and commercial products.

Elaboration and accompanying support of cluster' innovative-investment business-projects for manufacture of achievement-oriented high-technology agricultural products taking into account regional peculiarities.



INITIATORS

Regional scientific institutes of NAAS, Basic economies of ACS



INSTITUTE FOR INNOVATION BIOECONOMICS «BIOGARDEN» – BLOOMING BARTON»



CLUSTERS for production of healthy gardening products

Selection, improvement and reproduction of planting material on a non-virus basis, laying out an intensive high-yielding gardens, growing and processing of fruit, berry and native cultures.

STARTUPS

Creation of high-yielding varieties, improvement and reproduction of certified planting material for bio-adaptive technologies in gardening.



Industrial gardening complexes creation on basis of rational garden architecture, immune varieties, environmentally friendly intensive technologies of growing, storing, processing of fruit and berry products.



Establish a harmonize fruit and berry economies in perm-design style, decorative residential yards and Horticultural Society with technologically-processing- industry- selling infrastructure



INITIATORS

Regional scientific institutes of NAAS, Basic economies of ACS



INSTITUTE FOR INNOVATION BIOECONOMICS «BIOLAN – FOOD FOR LIFE»



CLUSTERS for healthy food production

Special varieties and hybrids selection, cereal cultivation technologies, legumes, cereal crops for the production of safe and useful products of balanced nutrition with increased dietary and biodynamic qualities.



STARTUPS



Establishing the biotechnological centers and reproducers for the selection reproduction of niche seeds for healthy food products production

Establishing a high-tech manufacturing "Useful food" for breeding, cultivation and processing of cultures with a unique amino acid composition (buckwheat, millet), whole grains (spinach), balanced plant protein (hen, lentil)



Establishing a high-tech manufacturing "Food instead of drugs" for breeding, cultivation and processing of crops which have healing qualities (stevia honey - a natural sweetener, medicinal ginger, color garlic - blood purification and protection against hypertension)

INITIATORS

***Institute of Bioenergy Crops and Sugar Beet of NAAS,
Basic economies of ACS, Selection and technological institutions of NAAS***



INSTITUTE FOR INNOVATION BIOECONOMICS «BIOPROD» – PERMACULTURE



CLUSTERS for organic products manufacturing

Design system and technology for long-term agriculture management on the basis of polyculture harmonization, organic farming, ecological industry for safe and useful foodstuff production.



STARTUPS



Environmental research and productive forces for perm-design framing of environmentally friendly growing of safe and healthy foodstuff

Shaping a biocompatible crops bouquet for the long-term and effective management of agriculture and food production within the framework of the planned perm-design and existing bioresources



Organic (biological) farming technologies introduction without using some non-specific substances for the natural environment and technical means in a bounded system of permaculture

INITIATORS

Basic economies of ACS, Institute of agriculture of NAAS



INSTITUTE FOR INNOVATION BIOECONOMICS **«BIOEFFECT - SCALES OF PLANTS»**



CLUSTERS for output of products with bioactive properties

Selection of crops, bio-adaptive growing practice and processing of essential oil, medicinal, combined agricultural products with high content of bioactive substances

STARTUPS

Creation (regeneration) of varieties of essential-oil-bearing plants (lavender, coriander, cumin, fennel, Salvia sclarea), industrial cultivation and processing of ethereal products



Parturiating of varieties (Echinacea Purpurea, belladonna, chamomile, calendula, valerian, mint, etc.), growing on an industrial basis and processing of medicinal products

Varieties development and growing practices of commercial hemsps and fiber flax with full range of processing inclusive of many-sided plants' characteristic, which are containing bioactive agents, oil, fibres, raw materials for biofuels and building materials production



INITIATORS

Institutes of NAAS: Institute of Bast Crops, Institute of Horticulture, Institute of Irrigated Agriculture; Basic economies of ACS



CLUSTERS for biofuels production based on phytoenergy resources

Energy crops selection, growing practices and harvesting of biomass, production of solid biofuels and application into autonomous energy systems



STARTUPS



Seed multiplication (switch grass) and miscanthus, resources-saving agrotechnics for cultivating and harvesting of renewable phytoresources for an energy biomass production in various agro-climatic zones

Tree lines of dual purpose designing, growing practices and using for energy requirements



Creation of autonomous power systems of social and industrial objects based on biomass cultivation, biofuel production, modernization and provision of bio-resources of agro enterprises' energy networks, territorial communities, administrative districts and its infrastructure

INITIATORS

Institute of Bioenergy Crops and Sugar Beet of NAAS, Basic economies of ACS